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Keswick Urban District Council

ANNUAL REPORT

of the

Medical Officer of Health

John Patterson, M.B., B.Ch., B.A.O., D.P.H.

FOR THE YEAR

1957



Together with the Summary of Work
of the Public Health Inspector



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KESWICK URBAN DISTRICT COUNCIL

TO THE CHAIRMAN AND MEMBERS OF THE
KESWICK URBAN DISTRICT COUNCIL

LADIES AND GENTLEMEN,

I have the honour to present my 4th Annual Report as Medical Officer of Health to the Keswick Urban District Council.

A full account of the year's work is included mainly in statistical form.

My thanks are again due to Mr. R. Lusher, Surveyor and Public Health Inspector, for his continued co-operation and earnestness in all his work, and I would also express my appreciation of the help given to me by the Clerk and his staff and the courtesy and kindness shown to me by the Members of the Council. Each year, Mr. Tom Wilson, Official Observer to the Meteorological Office and the Air Ministry allows me to use his figures and comments in this report and I should like to extend my thanks to him for his courtesy.

I am,

Mr. Chairman, Ladies & Gentlemen,

Your Obedient Servant,

JOHN PATTERSON,
Medical Officer of Health.

STATISTICAL AND SOCIAL CONDITIONS OF THE AREA

Area (acres) 1,272.

Registrar-General's estimate of resident population (mid-1957)
4,700 (Mid-1956—4,730).

Number of inhabited houses. 1638.

Rateable Value. £60, 325.

Sum represented by a Penny Rate, £244.

The Tables of Vital Statistics are set out below, showing birth rates, death rates and rates for maternal and infantile mortality.

Crude birth and death rates are corrected by means of an Area Comparability Factor supplied each year by the Registrar General. They allow for varying age and sex distribution of the population in different areas and enable comparisons to be made with figures for other areas.

This year the factor for births is 1.00 and for deaths 0.86. The total live births were 50, 10 more than in 1956, resulting in a birth rate of 8.5 (8.5 corrected) compared with 8.5 in 1956. Two of the births were illegitimate.

There were three still births which represents a rate of 25.0 per thousand live births compared with 25.0 in 1956. The National rate for 1957 is 23.0 per thousand live births.

The number of deaths at all ages was 63 which gives a death rate of 15.0 (14.9 corrected) compared with 15.0 (14.9 corrected) in 1956.

There were no maternal deaths during the year. Amongst infants under one year of age, there was one death, the cause of the death being prematurity and occurring in the first week of life.

Deaths from cancer decreased from 16 to 11 over the previous year.

There was one death from non-respiratory tuberculosis during the year.

VITAL STATISTICS

Population of the URBAN DISTRICT (mid-1957)—4,700.

LIVE BIRTHS—

| Year | | Males | Females | Total | Grand Total | Rate per 1,000 pop. | |
|------|--------------|-------|---------|-------|----------------|------------------------|----------------|
| | | | | | | uncor- rected | cor- rected |
| 1952 | Legitimate | 28 | 22 | 50 | | | |
| | Illegitimate | 0 | 2 | 2 | 52 | 11.1 | 11.1 |
| 1953 | Legitimate | 27 | 14 | 41 | | | |
| | Illegitimate | 0 | 2 | 2 | 43 | 9.0 | 9.0 |
| 1954 | Legitimate | 23 | 21 | 44 | | | |
| | Illegitimate | 0 | 0 | 0 | 44 | 9.2 | 9.2 |
| 1955 | Legitimate | 31 | 20 | 51 | | | |
| | Illegitimate | 0 | 1 | 1 | 52 | 10.9 | 10.9 |
| 1956 | Legitimate | 18 | 21 | 39 | | | |
| | Illegitimate | 0 | 1 | 1 | 40 | 8.5 | 8.5 |
| 1957 | Legitimate | 19 | 29 | 48 | | | |
| | Illegitimate | 1 | 1 | 2 | 50 | 10.6 | 10.6 |

STILL BIRTHS—

| Year | | Males | Females | Total | Grand Total | Rate per 1,000 of Population | |
|------|--------------|-------|---------|-------|----------------|------------------------------------|--|
| | | | | | | | |
| 1952 | Legitimate | 3 | 1 | 4 | | | |
| | Illegitimate | 0 | 0 | 0 | 4 | .85 | |
| 1953 | Legitimate | 1 | 0 | 1 | | | |
| | Illegitimate | 0 | 0 | 0 | 1 | .21 | |
| 1954 | Legitimate | 0 | 0 | 0 | | | |
| | Illegitimate | 0 | 0 | 0 | 0 | 0.0 | |
| 1955 | Legitimate | 0 | 1 | 1 | | | |
| | Illegitimate | 0 | 0 | 0 | 1 | 0.21 | |
| 1956 | Legitimate | 0 | 1 | 1 | | | |
| | Illegitimate | 0 | 0 | 0 | 1 | 0.21 | |
| 1957 | Legitimate | 1 | 2 | 3 | | | |
| | Illegitimate | 0 | 0 | 0 | 3 | 0.64 | |

DEATHS—

| Year | Males | Females | Total | Rate per 1,000 pop. uncorrected | Rate per 1,000 pop. corrected |
|------|-------|---------|-------|---------------------------------------|-------------------------------------|
| 1952 | 33 | 35 | 68 | 14.5 | 11.4 |
| 1953 | 28 | 24 | 52 | 10.9 | 8.6 |
| 1954 | 24 | 34 | 58 | 12.2 | 9.6 |
| 1955 | 26 | 39 | 65 | 13.6 | 10.7 |
| 1956 | 32 | 39 | 71 | 15.0 | 14.9 |
| 1957 | 30 | 33 | 63 | 13.4 | 11.5 |

MATERNAL MORTALITY—

| Year | Deaths | Rate per 1,000 births |
|------|--------|--------------------------|
| 1952 | ... | 0 |
| 1953 | ... | 0 |
| 1954 | .. | 0 |
| 1955 | ... | 0 |
| 1956 | ... | 0 |
| 1957 | ... | 0 |

INFANTILE MORTALITY RATES—

| INFANTILE MORTALITY RATES— | | | | Legitimate | Illegitimate |
|----------------------------|-----|-------------------------------------|--|--|--|
| Year | | Deaths of infants under 1 yr. | All infants per 1000 live births | infants per 1000 live legitimate births | infants per 1000 live illegitimate births |
| 1952 | ... | 1 | 19 | 20 | 0 |
| 1953 | ... | 1 | 23 | 24 | 0 |
| 1954 | ... | 0 | 0 | 0 | 0 |
| 1955 | ... | 1 | 19 | 19 | 0 |
| 1956 | ... | 1 | 25 | 25 | 0 |
| 1957 | ... | 0 | 0 | 0 | 0 |

TUBERCULOSIS DEATH RATE—

| Year | Pulmonary T.B. Deaths | Other T.B. Deaths | Total T.B. Deaths | Pulmonary T.B. death rate per 1000 pop. | Total T.B. death rate per 1000 pop. |
|------|-----------------------------|-------------------------|-------------------------|---|--|
| 1952 | 0 | 0 | 0 | 0.0 | 0.0 |
| 1953 | 1 | 0 | 1 | 0.21 | 0.21 |
| 1954 | 1 | 0 | 1 | 0.21 | 0.21 |
| 1955 | 0 | 0 | 0 | 0.0 | 0.0 |
| 1956 | 0 | 0 | 0 | 0.0 | 0.0 |
| 1957 | 0 | 1 | 1 | 0.0 | 0.21 |

TABLE OF COMPARATIVE RATES (uncorrected)—

Birth Rate :

| | 1952 | 1953 | 1954 | 1955 | 1956 | 1957 |
|--------------------------|------|------|------|------|------|------|
| England and Wales | 15.3 | 15.5 | 15.2 | 15.0 | 15.7 | 16.1 |
| County of Cumberland | 17.3 | 16.7 | 16.4 | 16.4 | 16.9 | 17.9 |
| Urban Districts of Cumb. | 17.6 | 17.5 | 17.5 | 16.7 | 17.5 | 18.8 |
| Keswick Urban | 11.1 | 9.0 | 9.2 | 10.9 | 8.5 | |

Death Rate :

| | | | | | | |
|--------------------------|------|------|------|------|------|------|
| England and Wales | 11.3 | 11.4 | 11.3 | 11.7 | 11.7 | 11.5 |
| County of Cumberland | 12.1 | 11.9 | 11.9 | 12.2 | 12.2 | 12.1 |
| Urban Districts of Cumb. | 12.9 | 11.8 | 11.4 | 12.2 | 12.3 | 12.2 |
| Keswick Urban | 14.5 | 10.9 | 12.2 | 13.6 | 15.0 | |

Infantile Mortality :

| | | | | | | |
|--------------------------|------|------|------|------|------|------|
| England and Wales | 27.6 | 26.8 | 25.5 | 24.9 | 23.8 | 23.0 |
| County of Cumberland | 32 | 27 | 27.6 | 28.4 | 30.4 | 26.4 |
| Urban Districts of Cumb. | 29 | 30 | 24.9 | 27.3 | 32.5 | 25.8 |
| Keswick Urban | 9 | 23 | 0.0 | 19.2 | 25.0 | |

CAUSES OF DEATH IN 1957

| Causes of Death | | | | Male | Female |
|---|---|-----|-----|------|--------|
| All Causes | | | | 30 | 33 |
| 1. | Tuberculosis, Respiratory | ... | ... | — | — |
| 2. | Tuberculosis, Other | ... | ... | 1 | — |
| 3. | Syphilitic Disease | ... | ... | — | — |
| 4. | Diphtheria | ... | ... | — | — |
| 5. | Whooping Cough | ... | ... | — | — |
| 6. | Meningo-coccal infections | ... | ... | — | — |
| 7. | Acute Poliomyelitis | ... | ... | — | — |
| 8. | Measles | ... | ... | — | — |
| 9. | Other infective and parasitic diseases | ... | ... | — | — |
| 10. | Malignant Neoplasm, stomach | ... | ... | 1 | — |
| 11. | „ „ lung, bronchus | ... | ... | 1 | — |
| 12. | „ „ breast | ... | ... | — | 1 |
| 13. | „ „ uterus | ... | ... | — | — |
| 14. | Other Malignant and lymphatic neoplasms | ... | ... | 4 | 4 |
| 15. | Leucoekmia, aleukoema | ... | ... | — | — |
| 16. | Diabetes | ... | ... | 1 | — |
| 17. | Vascular lesions of nervous system | ... | ... | 4 | 6 |
| 18. | Coronary Disease, angina | ... | ... | 5 | 9 |
| 19. | Hypertension with Heart Disease | ... | ... | 1 | 2 |
| 20. | Other Heart Disease | ... | ... | 7 | 5 |
| 21. | Other circulatory diseases | ... | ... | — | — |
| 22. | Influenza | ... | ... | 1 | 1 |
| 23. | Pneumonia | ... | ... | — | 1 |
| 24. | Bronchitis | ... | ... | — | 1 |
| 25. | Other diseases of respiratory system | ... | ... | 1 | 1 |
| 26. | Ulcer of Stomach and duodenum | ... | ... | 1 | — |
| 27. | Gastritis, enteritis and diarrhoea | ... | ... | — | 1 |
| 28. | Nephritis and Nephrosis | ... | ... | — | — |
| 29. | Hyperplasia of prostate | ... | ... | — | — |
| 30. | Pregnancy, childbirth, abortion | ... | ... | — | — |
| 31. | Congenital malformations | ... | ... | — | — |
| 32. | Other defined and ill-defined diseases | ... | ... | 1 | 1 |
| 33. | Motor Vehicle Accidents | ... | ... | — | — |
| 34. | All other accidents | ... | ... | 1 | — |
| 35. | Suicide | ... | ... | — | — |
| 36. | Homicide and operations of war | ... | ... | — | — |
| Deaths of Infants under 1 year of age—Total | | | | 0 | 0 |

INFANTILE MORTALITY

Deaths under one year showing varying causes and ages :—

| Cause of Death | Under 1 Week | 1—2 weeks | 2—3 weeks | 3—4 weeks | Total under 4 weeks | 1—3 months | 3—6 months | 6—9 months | 9—12 months | Total under 1 year |
|----------------|--------------|-----------|-----------|-----------|---------------------|------------|------------|------------|-------------|--------------------|
| | | | | | | | | | | |

SENILE DEATH RATE

| Age at Death | | Males | Females | Total |
|--------------|--------|-------|---------|-------|
| 65-70 years | ... | 4 | 5 | 9 |
| 70-75 years | ... | 5 | 4 | 9 |
| 75-80 years | ... | 6 | 7 | 13 |
| 80-85 years | ... | 2 | 3 | 5 |
| 85-90 years | ... | 2 | 5 | 7 |
| 90-95 years | ... | 1 | 2 | 3 |
| Totals | | 20 | 26 | 46 |

Senile Death Rate 73.0% of total deaths (1956—78.8).

DEATHS FROM VIOLENCE

| Cause | | No. of Deaths | % of all causes | Rate per 1000 of population |
|----------------|------|---------------|-----------------|-----------------------------|
| Suicide | 1956 | 0 | 0.0 | 0.0 |
| | 1957 | 0 | 0.0 | 0.0 |
| Road Traffic | 1956 | 0 | 0.0 | 0.0 |
| Accidents | 1957 | 0 | 0.0 | 0.0 |
| Other Violence | 1956 | 1 | 1.4 | 0.21 |
| | 1957 | 1 | 1.6 | 0.21 |
| Total | 1956 | 1 | 1.4 | 0.21 |
| | 1957 | 1 | 1.6 | 0.21 |

DEATHS FROM CANCER

| System | Site of Disease Primary Organ | Males | Females |
|-------------|----------------------------------|-------|---------|
| Alimentary | Stomach | 1 | 0 |
| | Oesophagus | 0 | 1 |
| | Colon | 0 | 1 |
| Urinary | Bladder | 2 | 0 |
| Respiratory | Bronchus | 1 | 0 |
| Lymphatic | Mediastinum | 1 | 0 |
| | Tonsil | 0 | 1 |
| Glandular | Thyroid | 0 | 1 |
| | Breast | 0 | 1 |
| Tegumental | Melanoma | 1 | 0 |
| TOTAL | | 6 | 5 |

| Age at Death | Males | Females | Totals |
|-------------------------|-------|---------|--------|
| Between 10 and 20 years | 1 | 0 | 1 |
| Between 40 and 50 years | 2 | 0 | 2 |
| Between 70 and 80 years | 2 | 3 | 5 |
| Between 80 and 90 years | 1 | 2 | 3 |
| 90 years upwards | 0 | 0 | 0 |
| Totals | 6 | 5 | 11 |

Cancer Death Rate 2.3 per 1,000 population (1956—3.4 per 1,000 pop.)
Approximately 1 death in 6 was due to Cancer.

INFECTIOUS DISEASES

There were no infectious diseases notified in 1957, apart from 3 cases of Pulmonary Tuberculosis.

There were no notifications of enteric fever or food poisoning.

CASES ON THE TUBERCULOSIS REGISTER

| | Males | Females | Totals |
|---------------|-------|---------|--------|
| Pulmonary ... | 13 | 18 | 31 |
| Non-Pulmonary | 2 | 4 | 6 |
| | — | — | — |
| All Cases ... | 15 | 22 | 37 |

POLIOMYELITIS

The number of children registered for Poliomyelitis vaccination during the year was 481 and by the end of the year 20 of these had had two injections.

SMALLPOX VACCINATION

| Age at Vaccination | 1 | 1 | 2-4 | 5-14 | over 15 yrs. | Total |
|---------------------|----|---|-----|------|--------------|-------|
| Primary Vaccination | 17 | 1 | — | — | — | 18 |
| Re-vaccination | — | — | 1 | 2 | 3 | 6 |

Non-Notifiable Infectious Diseases.

Influenza type A, of Asian origin was very prevalent from October onwards, and although not severe generally caused two deaths.

IMMUNISATION

DIPHTHERIA.—There were again no notifications of Diphtheria; the case rate and death rates, therefore, respectively, were nil.

The immunisation campaign against diphtheria was continued as before, but had to take second place to the Poliomyelitis vaccination programme.

During the year under review 21 infants under 5 years were given primary injections (two at intervals of a few weeks) several by their own private doctors, and 9 aged between 5 and 15 years.

68 children received a single re-inforcing dose (these are children who received the two primary doses 4 to 5 years previously).

The co-operation of the local medical practitioners, head teachers, the district Nurses and, particularly, that of the County Health Visitor, Miss Horn, is hereby gratefully acknowledged.

It is considered essential to reiterate that sustained effort must continue to be made by all concerned to achieve the level of immunisation necessary among children generally, and particularly in regard to infants under one year of age and in the 0 to 5 years group.

* * *

B.C.G. (TUBERCULOSIS)

Mantoux testing, Mass Miniature Radiography and B.C.G. vaccination was continued in 1957, the age group concerned being those born in 1943.

Of the 113 children in this age group attending schools in Keswick 99 were tested (consent rate of 88%) and 28 (28.3%) were found to be positive reactors, i.e. to have been in contact with tuberculosis. The remaining 71 were given B.C.G. vaccination which was successful in all cases. The figure of 28.3% for positive reactors is about the average for the County as a whole, and is 10% below the figure for 1956.

GENERAL PROVISION OF HEALTH SERVICES IN THE AREA

PUBLIC HEALTH STAFF

1. Part-time Medical Officer of Health.
2. One Public Health Inspector, Mr. Ralph Lusher, A.R.S.H.,
M.A.P.H.I., being also the Surveyor and Water Engineer.

SANITARY CIRCUMSTANCES OF THE AREA

WATER SUPPLY

The yield from the various supplies continues to be adequate at all times.

Chlorination was continued during the year.

35 samples of water were submitted for analysis during the year, 33 of which were regarded by the analyst as highly satisfactory.

The water is soft in character and lead pipes are not used owing to the liability of plumbo solvency. Copper service pipes are used throughout the district.

With the exception of 8 houses at High Briery, where there is a standpipe, all premises have a piped supply.

DRAINAGE AND SEWERAGE

No major extension of the sewerage system was carried out and no progress appeared to be made towards improving the Sewage Works which are inadequate to treat properly the amount of sewage passing through.

SCAVENGING AND REMOVAL OF REFUSE

2 Karrier Bantam refuse wagons are employed but one of these is used part time on other work.

Very few complaints are received and this service is generally satisfactory.

Refuse is disposed of by controlled tipping and a full time attendant is in charge of the refuse tip.

The salvage of paper and cardboard was continued during the year and comparative figures of sales in the past five years are as follows :—

| | |
|-------|---------------------------|
| 1953. | 49 tons sold for £370. |
| 1954. | 63 tons sold for £485. |
| 1955. | 92 tons sold for £800. |
| 1956. | 140 tons sold for £1,042. |
| 1957. | 139 tons sold for £996. |

In addition scrap iron, rags, woollens, and non-ferrous metals were sold to the value of £197.

SANITARY INSPECTION OF THE DISTRICT

Summary supplied by the Sanitary Inspector to the Medical Officer of Health, in pursuance of Article XIX of the Sanitary Officer's Order, 1926.

| | | | | |
|---|-----|-----|-----|-----|
| Premises inspected during the year | ... | ... | ... | 103 |
| Nuisances or defects discovered | ... | ... | ... | 20 |
| Do. do. remedied after informal notice | ... | ... | ... | 20 |
| „ do. remedied after statutory notice | ... | ... | ... | 0 |
| Housing Inspections under Public Health or Housing Acts | | | | 130 |
| Factory Inspections | ... | ... | ... | 14 |

FACTORIES ACT, 1937

A total of 14 inspections were made by the Public Health Inspector and the 2 defects revealed were remedied by informal action. The following table shows the position in this district at the end of 1954 :—

| Premises | Number | Inspections | Defects Found | Written Notices | Defects Remedied | Prosecutions |
|---|--------|-------------|---------------|-----------------|------------------|--------------|
| (i) Factories in which Sections 1, 2, 3, 4 & 6 are to be enforced by Local Authority | 16 | 12 | 1 | — | — | — |
| (ii) Factories not included in (i) in which Section 7 is enforced by Local Authority | 43 | 2 | — | 0 | — | — |
| (iii) Other premises in which Section 7 is enforced by the Local Authority (excluding out-workers premises) | — | — | — | — | — | — |
| Totals . . . | 59 | 14 | 1 | — | — | — |

(Section 1 refers to Cleanliness, 2 to overcrowding, 3 Temperature, 4 Ventilation, 6 Drainage of Floors, and 7 Sanitary Conveniences).

The above figures include 5 bakehouses.

Outworkers—Nil.

SHOPS ACT, 1934

Periodic Inspections were made by the Sanitary Inspector. No action was taken during the year.

PREVENTION OF DAMAGE BY PESTS ACT, 1949

The Council employees undertake treatment as recommended. The sewers were treated several times during the year and the refuse tip was treated 9 times. Treatments were also carried out at 11 private houses and 3 business premises.

HOUSING

Four houses were built by Private Enterprise during 1957. No Council houses were built during the year. The total number of Council houses erected since the war is 175.

HOUSING APPENDIX

STATISTICS

1.—Inspection of dwelling-houses during the year :—

| | |
|--|----|
| 1. (a) Total number of dwelling-houses inspected for defects (under Public Health or Housing Acts) | 45 |
| (b) Number of inspections made for the purpose ... | 62 |
| 2. (a) Number of dwelling-houses (included under sub-head (1) above (which were inspected and recorded under the Housing Consolidated Regulations 1925 and 1932) | 0 |
| (b) Number of inspections made for the purpose ... | 0 |
| 3. Number of dwelling-houses found to be in a state so dangerous or injurious to health as to be unfit for human habitation | 0 |
| 4. Number of dwelling-houses (exclusive of those referred to under the preceding sub-heading) found not to be in all respects reasonably fit for human habitation | 22 |

| | |
|---|----|
| 2.—Remedy of defects during the year without service of Formal Notices : Number of defective dwelling-houses rendered fit in consequence of informal action by the Local Authority or their Officers | 14 |
|---|----|

FOOD HYGIENE REGULATIONS, 1955

These Regulations came into force on the 1st January, 1956, and they apply to all premises where food is handled. Twenty-seven inspections of food premises were made and one informal Notice was served drawing attention to defects in the premises. This notice was complied with.

CARAVAN SITES

There are three licensed caravan sites in the district and these were inspected on many occasions.

INSPECTION AND SUPERVISION OF FOOD

MILK SUPPLY

There were fourteen registered milk sellers, six of these being producers and retailers, whose premises were in the Urban District. Inspections continued to be made periodically.

A large quantity of the the town's milk supply is retailed by producers whose premises are situated in the surrounding Rural District. There were six of such producer-retailers during 1957.

Four licences have been issued for the selling of Designated Milk in the Keswick Urban District.

MEAT AND OTHER FOODS

There are no slaughter houses in the Urban area, all meat is transported from abattoirs outside the district.

The following is a brief summary of foodstuffs for which certificates of unsoundness were issued by the Public Health Inspector :—

252 lbs. cooked meat, and 13 tins of various foods. These foodstuffs were removed by the refuse collectors and buried at the refuse tip.

BAKEHOUSES.—There are 5 in existence. As usual all these premises were periodically inspected.

| | |
|--|----|
| ICE-CREAM.—Registered premises for manufacture or sale | 35 |
| sale only | 28 |
| Number of Inspections | 14 |

| | |
|---|----|
| FOOD (Preparation and Manufacture) Premises | |
| Registered for the preparation and manufacture of foods | 11 |
| Number of Inspections | 9 |

INFECTIOUS DISEASES NOTIFICATIONS, 1957

| | Age distribution | | | | | | | | Monthly Incidence of disease | | | | | | | | | | | | | |
|-----------------------------|------------------|--------------|-----------|-----------|-----------|-------------|-------------|-------------|------------------------------|---------------|---------|----------|-------|-------|-----|------|------|--------|-----------|---------|----------|----------|
| | Total cases | Under 1 year | 1-2 years | 3-4 years | 5-9 years | 10-14 years | 15-24 years | 25-44 years | 45-64 years | Over 65 years | January | February | March | April | May | June | July | August | September | October | November | December |
| Scarlet Fever ... | | | | | | | | | | | | | | | | | | | | | | |
| Whooping Cough ... | | | | | | | | | | | | | | | | | | | | | | |
| Acute Poliomyelitis— | | | | | | | | | | | | | | | | | | | | | | |
| Paralytic ... | | | | | | | | | | | | | | | | | | | | | | |
| Non-Paralytic ... | | | | | | | | | | | | | | | | | | | | | | |
| Measles ... | | | | | | | | | | | | | | | | | | | | | | |
| Diphtheria ... | | | | | | | | | | | | | | | | | | | | | | |
| Acute Pneumonia ... | | | | | | | | | | | | | | | | | | | | | | |
| Dysentery ... | | | | | | | | | | | | | | | | | | | | | | |
| Smallpox ... | | | | | | | | | | | | | | | | | | | | | | |
| Acute Encephalitis— | | | | | | | | | | | | | | | | | | | | | | |
| Infective ... | | | | | | | | | | | | | | | | | | | | | | |
| Post-infectious ... | | | | | | | | | | | | | | | | | | | | | | |
| Typhoid Fever ... | | | | | | | | | | | | | | | | | | | | | | |
| Paratyphoid Fever ... | | | | | | | | | | | | | | | | | | | | | | |
| Meningococcal infection ... | | | | | | | | | | | | | | | | | | | | | | |
| Food Poisoning ... | | | | | | | | | | | | | | | | | | | | | | |
| Puereral Pyrexia ... | | | | | | | | | | | | | | | | | | | | | | |
| Ophthalmia Neonatorum ... | | | | | | | | | | | | | | | | | | | | | | |
| Tuberculosis— | | | | | | | | | | | | | | | | | | | | | | |
| Meninges & C.N.S. ... | | | | | | | | | | | | | | | | | | | | | | |
| Respiratory ... | 3 | | | | | 2 | | 1 | | | | | | | | 2 | | 1 | | | | |
| Other Forms ... | | | | | | | | | | | | | | | | | | | | | | |
| Totals ... | 3 | | | | | 2 | | 1 | | | | | | | | 2 | | 1 | | | | |

METEOROLOGICAL STATION

Height above sea level, 254 ft.

Lat. 54° 36' N. Long. 3° 9' W.

RETURNS FOR 1956

| Month | RAINFALL | | | SUNSHINE | | |
|-----------|----------------|----------|-----|-------------|-----------|--|
| | Amount | Average | | Amount | Average | |
| | Ins. Days | 54 years | | Hrs. Days | 54 years | |
| January | ... 8.99 on 24 | ... 6.17 | ... | 29.2 on 17 | ... 33.6 | |
| February | ... 5.29 on 19 | ... 4.41 | ... | 67.2 on 19 | ... 54.1 | |
| March | ... 3.50 on 18 | ... 3.70 | ... | 84.9 on 22 | ... 120.3 | |
| April | .. 1.06 on 9 | ... 3.14 | ... | 149.8 on 24 | ... 134.3 | |
| May | ... 2.77 on 13 | ... 3.22 | ... | 214.1 on 30 | ... 182.1 | |
| June | ... 1.48 on 8 | ... 3.16 | ... | 292.0 on 29 | ... 180.4 | |
| July | ... 3.55 on 20 | ... 4.11 | ... | 115.0 on 25 | ... 157.6 | |
| August | ... 7.53 on 23 | ... 5.30 | ... | 109.5 on 26 | ... 139.4 | |
| September | ... 6.70 on 20 | ... 5.12 | ... | 98.5 on 22 | ... 115.4 | |
| October | ... 6.29 on 17 | ... 5.86 | ... | 54.4 on 22 | ... 79.3 | |
| November | ... 2.16 on 11 | ... 5.60 | ... | 35.4 on 13 | ... 45.6 | |
| December | ... 7.01 on 20 | ... 6.57 | ... | 43.5 on 13 | ... 28.7 | |

Totals ... 56.33 on 102

1293.5 on 261

Average Annual Rainfall, 55 years, 57.42.

Average Annual Sunshine Hours, 55 years, 1248.3.

TEMPERATURES

| Highest Maximum (in screen) | Lowest Minimum (in screen) | Lowest Minimum (on grass) | Ave. Daily Temp. | Nights Frost | Wind at Gale Force | Snow Lying |
|-----------------------------------|----------------------------------|---------------------------------|------------------------|--------------|-----------------------|------------|
| 56 on 3, 7, 16 | 26 on 19th | 19 on 19th | 43.0 | 2 | — | 1 |
| 52 on 4, 5 | 22 on 19, 26 | 13 on 26th | 40.0 | 13 | 1 | 3 |
| 69 on 12th | 31 on 3rd | 25 on 30th | 47.9 | 6 | — | — |
| 62 on 23rd | 27 on 13th | 23 on 20th | 46.9 | 7 | — | — |
| 67 on 26th | 31 on 6th | 22 on 6th | 50.2 | 5 | — | — |
| 83 on 16th | 36 on 12th | 31 on 12th | 57.2 | — | — | — |
| 80 on 6th | 45 on 17th | 37 on 17th | 59.5 | — | 2 | — |
| 76 on 2nd | 38 on 29th | 32 on 29th | 58.3 | — | — | — |
| 65 on 3rd | 34 on 26th | 28 on 26th | 52.7 | 3 | — | — |
| 64 on 16th | 32 on 20th | 27 on 20th | 50.3 | 3 | — | — |
| 55 on 21st | 27 on 23rd | 18 on 17th | 44.3 | 9 | — | — |
| 59 on 1st | 21 on 15th | 12 on 15th | 39.0 | 19 | 2 | — |
| Average Daily Temperature | | | 67.0 | 107 | 5 | 4 |

| EARTH | | | | | WIND | | | | |
|---|-----------------------|----------------------|-----------------------|----------------------|------|----------|-------|------|------|
| TEMPERATURE (at Observation Hr. 0.900 hrs.) | | | | | | | | | |
| Month | High- est 1 ft. | Low- est 1 ft. | High- est 4 ft. | Low- est 4 ft. | Calm | Quadrant | | | |
| | | | | | | North | South | East | West |
| January | 45.3 | 37.8 | 45.2 | 43.2 | 7 | 5 | 7 | 1 | 11 |
| February | 43.0 | 35.5 | 44.1 | 42.3 | 11 | 1 | 11 | 2 | 3 |
| March | 49.0 | 38.7 | 55.9 | 42.2 | 7 | 0 | 15 | 5 | 4 |
| April | 49.7 | 43.8 | 47.9 | 46.0 | 7 | 4 | 4 | 10 | 5 |
| May | 55.7 | 47.9 | 50.5 | 48.5 | 7 | 3 | 11 | 5 | 5 |
| June | 63.6 | 55.0 | 54.7 | 50.5 | 7 | 3 | 4 | 7 | 9 |
| July | 64.2 | 60.0 | 57.3 | 55.0 | 11 | 6 | 4 | 2 | 8 |
| August | 64.1 | 55.5 | 58.5 | 57.2 | 13 | 4 | 4 | 3 | 7 |
| September | 58.1 | 50.5 | 57.0 | 55.0 | 6 | 6 | 6 | 4 | 8 |
| October | 53.5 | 47.5 | 55.5 | 52.5 | 11 | 7 | 5 | 1 | 7 |
| November | 49.4 | 40.3 | 52.5 | 48.9 | 12 | 4 | 2 | 9 | 3 |
| December | 45.4 | 36.9 | 49.0 | 47.3 | 14 | 2 | 5 | 2 | 8 |
| Totals | | | | | 113 | 45 | 78 | 51 | 78 |

ABNORMAL PRECIPITATION

| | |
|----------------------------|-------------------------|
| November 2nd and 3rd, 1931 | 6.16 inches in 36 hours |
| November 3rd, 1931 | 4.86 .. |
| November 12th, 1938 | 3.37 .. |
| November 4th, 1926 | 3.30 .. in 9½ hours |
| December 24th, 1925 | 3.52 .. |
| August 2nd, 1923 | 3.60 .. |
| July 13th, 1932 | 2.56 .. in 5 hours |
| December 2nd, 1902 | 3.12 .. |

SUNDRY NOTES

| | | | |
|-------------------------------------|-----|-----|--------|
| Lightning observed | ... | ... | 6 days |
| Thunder heard | ... | ... | 6 days |
| Thunderstorm with precipitation | ... | ... | 6 days |
| More than 1 inch of rain fell on | ... | ... | 9 days |
| More than 2 inches of rain fell on | ... | ... | Nil |
| Visibility less than 1,000 yards | ... | ... | 8 days |
| Warmest day—June 16th | ... | ... | 83.0 |
| Coldest night—February 2nd | ... | ... | 16.0 |
| Lowest Minimum (on Grass), Dec. 5th | ... | ... | 12.0 |

WEATHER OF 1957

The main features of the year were the two fine spells of Spring and Autumn, the former from April to July, when, during the lengthening days only about half the usual rain was recorded: and again in November, which normally has a bad weather reputation, gave us a dry month. The early months produced a mild Winter with very little snow, and December was similar. On only four days was there snow lying on the low ground.

JANUARY.—More than average rain was recorded; three days yielded more than an inch, and a severe gale during the closing hours.

FEBRUARY.—More than average rainfall. A wintry spell of snow, frost and sleet with a gale on the 23rd.

MARCH.—A cloudy month with showers, but nothing exciting.

APRIL.—The beginning of a fine spell. A little snow on hills. A good ration of sunshine with rain well below average.

MAY.—Continued dry spells with long sunny days.

JUNE.—The sunny spells continue. Rain of a showery type, but less than half normal. Thirty days of bright sunshine, clear skies with excellent visibility, did not tempt the gentlemen who comment on weather conditions in the Lake District to make even a mention.

JULY.—Showery with fine warm spells. Convention week satisfied even the most critical pilgrims, while the Bus Drivers on strike had an enjoyable time in excellent weather.

AUGUST.—Heavy showers and shortage of sunshine and two nice gales.

SEPTEMBER.—Showers, similar to August, but consoling to know that similar conditions were experienced everywhere. A brilliant Aurora was observed on the 29th. Beekeepers were disappointed, for though there was a good crop of heather the weather was unsuitable for bees to harvest the nectar from the hills.

OCTOBER.—Autumn tints were exhibited in all their glory. A fine fortnight allowed late visitors and locals the opportunity to admire nature's illuminations which require no monetary assistance from rates. The closing fortnight was showery and the average rainfall maintained.

NOVEMBER.—Usually a fairly wet month proved the second driest month of the year. Many days, though cloudy, were dry and calm. A very pleasant month, but the announcer who gave the daily weather condition for the Lake District made no comment and preferred to "suffer in silence."

DECEMBER.—A few fine days gave way to sterner conditions—rain, storms, a little snow on the hills, and frost. We heard of polar conditions which were probably confused with the expeditions in the Antarctic yet unidentified in Northern Lake District. Frost with some rain followed until the last two days when the hills and the meadows on high ground were covered with a light covering of snow, while the mountain passes of Shap, Hartside and Kirkstone received special mention for a slight annoyance to traffic which lasted only a few hours.

ARRIVAL OF MIGRANT BIRDS

| | |
|----------------|------------------------|
| Wheatear | April 3rd |
| Cuckoo | April 28th |
| Swallows | April 20th |
| Swifts | April 23rd |
| House Martin | April 25th |
| Chiffchaff | April 12th |
| Corncrake | May 26th |
| Willow Warbler | April 12th |
| Whooper Swans | Sept. 22nd & Oct. 29th |
| Fieldfare | September 23rd |
| Redwing | November 30th |

